FIG.1

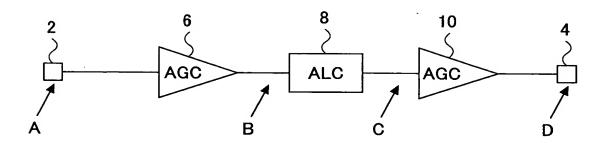
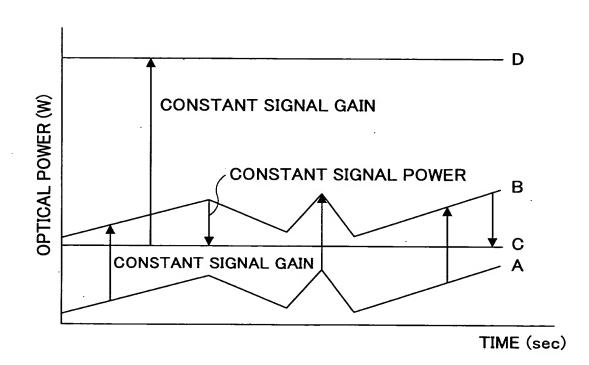
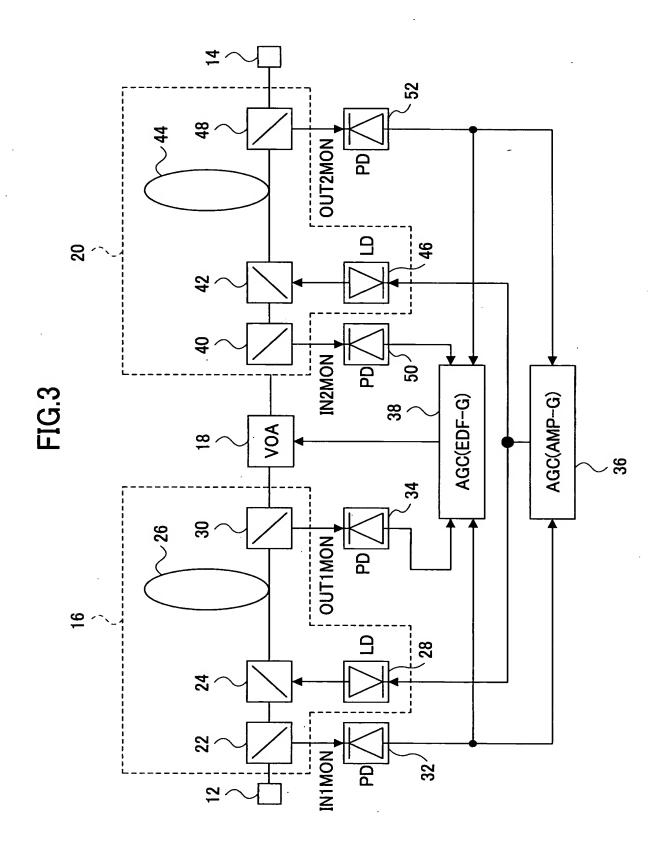


FIG.2





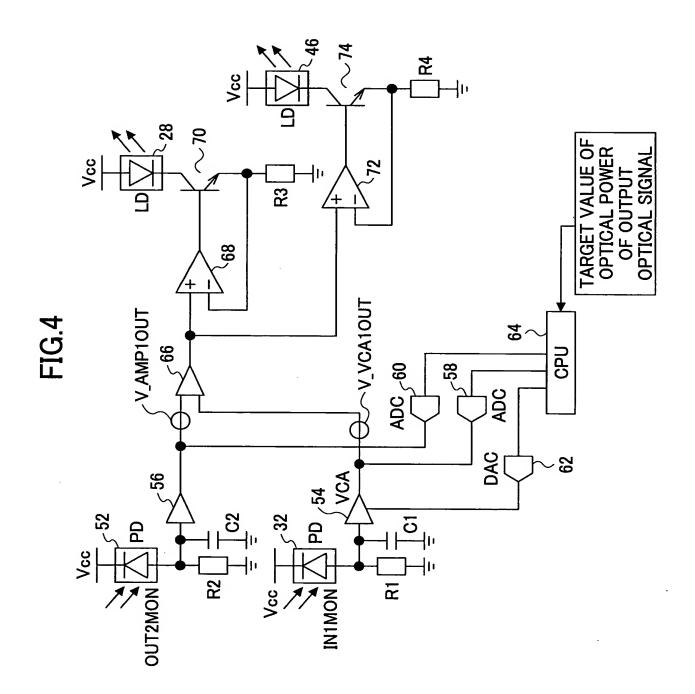
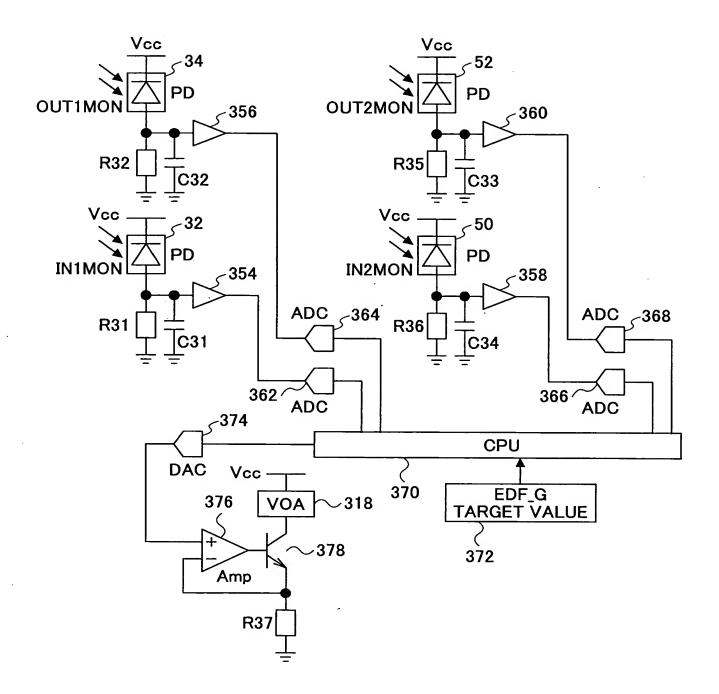
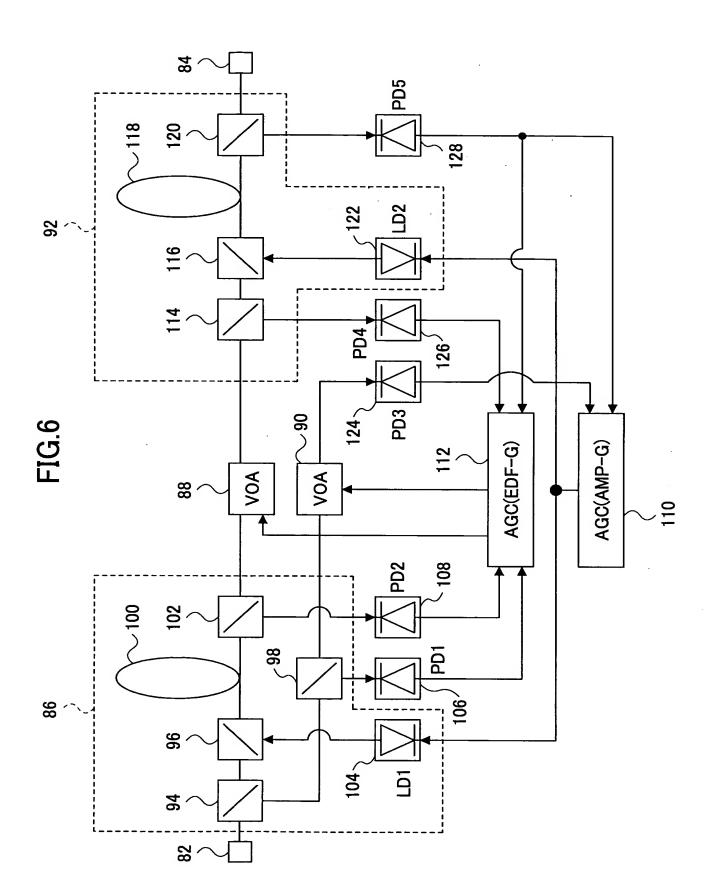


FIG.5





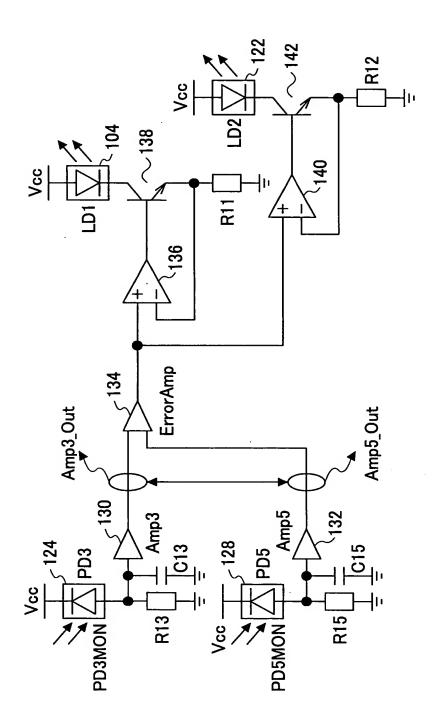
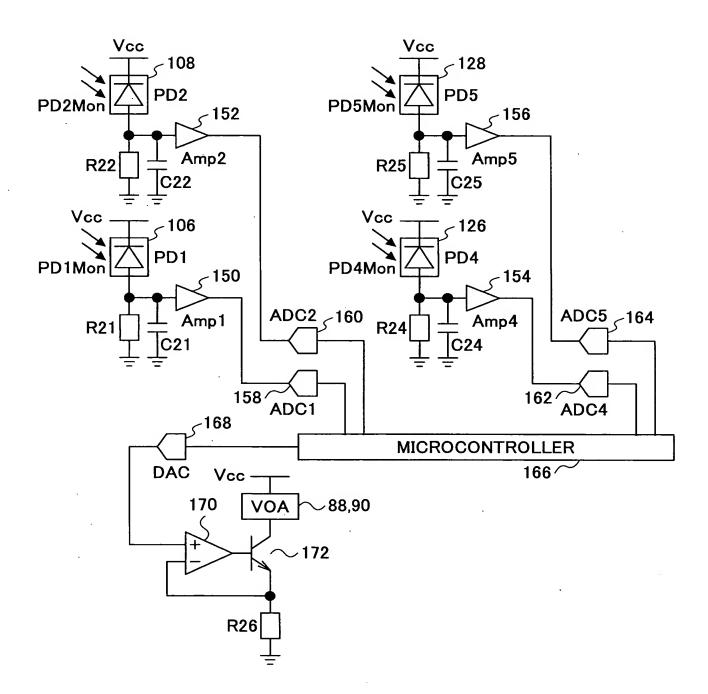
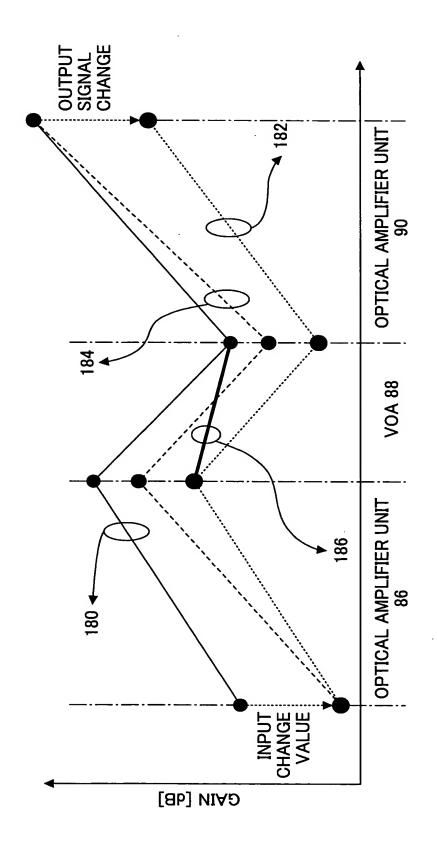


FIG.8





CONTROL STATE	INPUT	PD1	PD3	PD5	VOA1 Loss	VOA2 Loss	EDF_ total_Gain	AMP_Gain
INITIAL SETTING INPUT CHANGE CHANGE CORRECTION	××× -, a, .	× × × × × × × × × × × × × × × × × × ×	X-á ×	X+A X+A-á X+A	555	L2 L2 12-α	A+L1 A+L1 A+I 1+ 0	A A A
EDF_Gain CONTROL	×-, a	X-á	×	X+X	L1-α	$L2-\alpha$	A+L1	Α+α

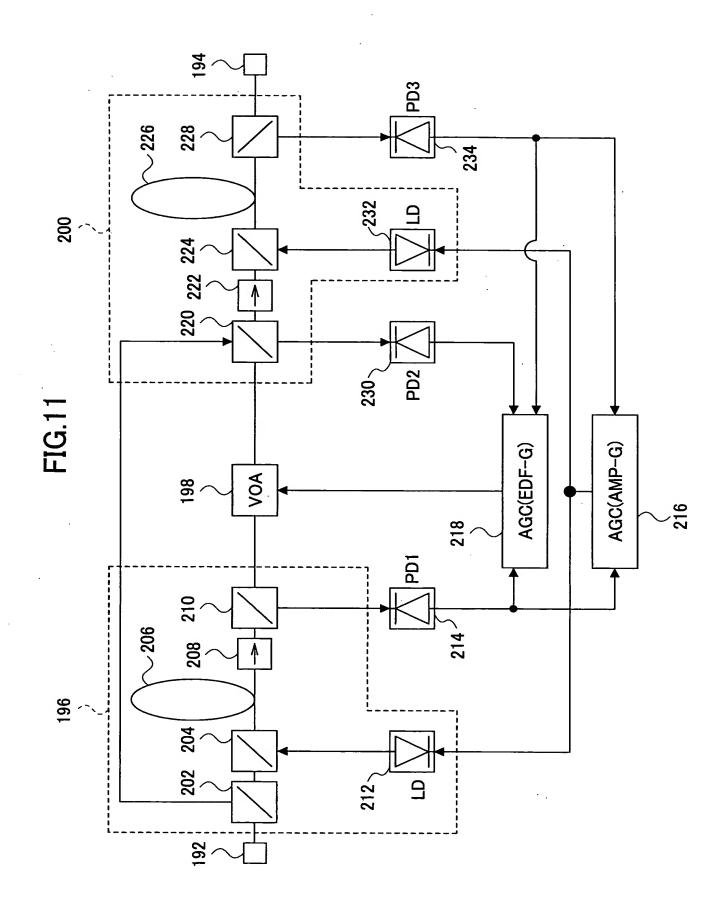
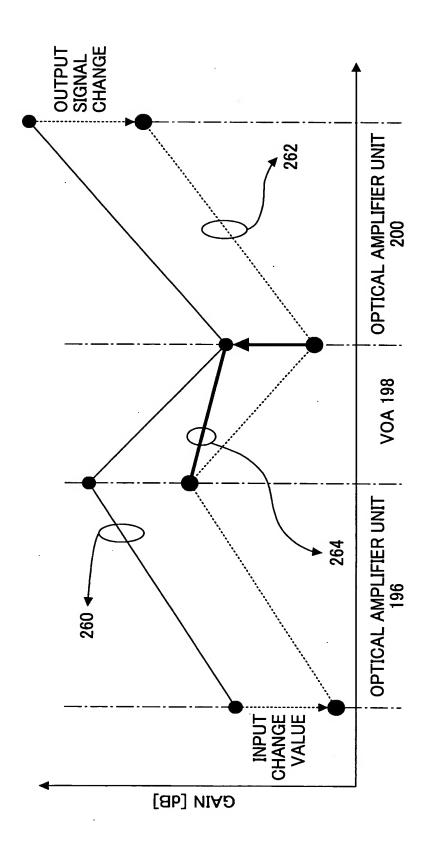


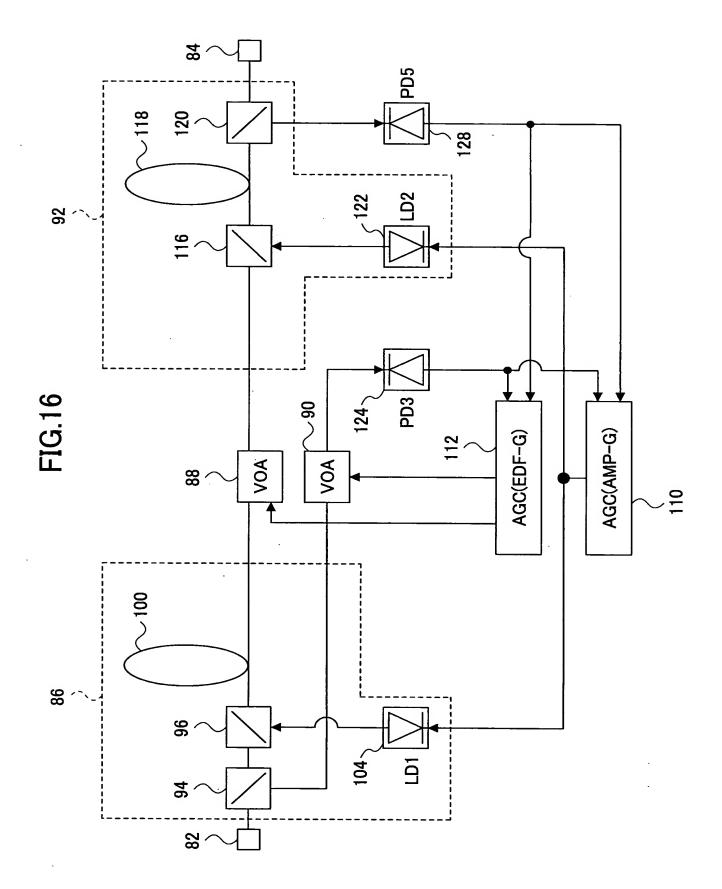
FIG.12

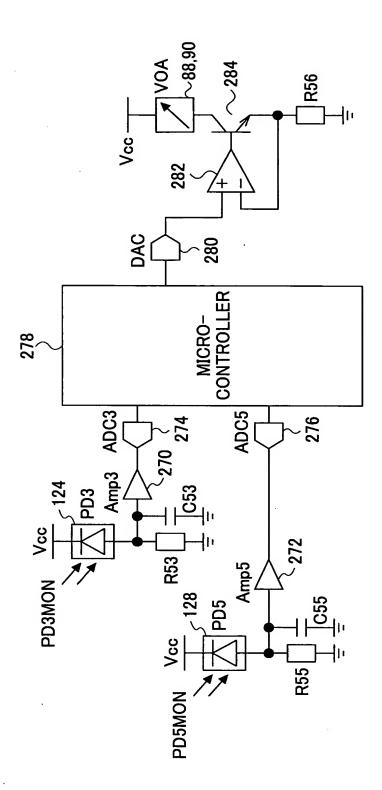


ain AMP_Gain	44	Α+α
EDF_ total_Gain	A+L A+L	A+L A+L
VOA Loss		Γ-α Γ-α
PD3	X+A X+A-á	¥ * X
PD2	X X-á	× × -, -, -,
PD1	Х Х-á	××
INPUT SIGNAL	. X X-á	×-× -, a,
CONTROL STATE	INITIAL SETTING 1 WAVELENGTH CHANNEL	CHANGE CORRECTION EDF Gain CONTROL

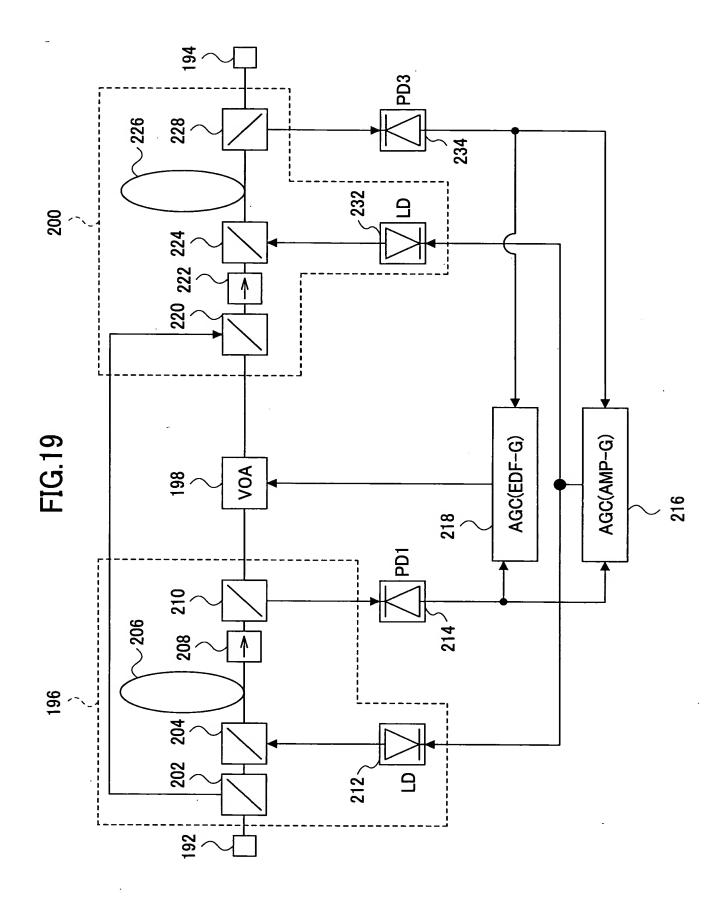
DIFFERENCE IN LOSSES DUE TO TEMPERATURE CHARACTERISTIC & PARTS INCONSISTENCIES [4B] YTITNAUQ NOITAUNƏTTA

DRIVING CURRENT [A]





ain				
AMP_Gain	A	∢	Α+α	Α+α
EDF_ total_Gain	A+L1	A+L1	A+α+L1	A+L1
VOA2 _Loss	77	7	L2-α	L2-α
VOA1 _Loss	17		=	L1-á
PD5	X+A	X-α+A	X+X	X+X
PD3	×	X-á	×	×
INPUT SIGNAL	X	×-,	Xá	Xá
CONTROL STATE	INITIAL SETTING	INPUT CHANGE	CHANGE CORRECTION	EDF_Gain CONTROL



## FIG.20

CONTROL STATE	INPUT	PD1	PD3	VOA Loss	EDF_ total_Gain	AMP_Gain
INITIAL SETTING	×	×	X+X	_	A+L	⋖
INPUT CHANGE	Xá	Xá	X-α+A	_	A+L	∢
CHANGE CORRECTION	X-á	×	X+X	<b>L-</b> α	A+L	Α+α
EDF_Gain CONTROL	Xá	×	X+A	<b>L-</b> α	A+L	Α+α